

IN THE CLAIMS

Please amend claims 1, 7, 9, 10, 15, 18 and 23 as follows:

1 1. (Currently Amended) A method for setting a print location for printing by a
2 printer, comprising the steps of:

3 determining whether a print location setting command for setting [[a]] the print
4 location for printing by the printer is input;

5 outputting a print location setting menu screen for setting the print location for
6 printing by the printer when the print location setting command is input;

7 inputting print location information for setting the print location for printing by
8 the printer for entry in the print location setting menu screen; [[and]]

9 storing the input print location information entered in the print location setting
10 menu screen in a memory; and

11 adjusting the print location for printing by the printer by determining the print
12 location for printing on a printing medium using the print location information and
13 margin information;

14 wherein the print location is determined by comparing an X-axis lower limit X_s
15 with an X-axis upper limit X_e , and by comparing a Y-axis upper limit Y_e with a Y-axis
16 lower limit Y_s .

1 2. (Previously Presented) The method of claim 1, the print location setting menu

2 screen comprising an input window for inputting at least coordinate information about a
3 starting point and an end point of the print location for setting the print location for
4 printing by the printer.

1 3. (Previously Presented) The method of claim 2, the print location setting menu
2 screen further comprising a cursor input window for setting the print location information
3 to default values.

1 4. (Previously Presented) The method of claim 3, the print location setting menu
2 screen being programmed such that edge boundary screen information for a printing
3 medium and print boundary screen information for a print location area for printing on
4 the printing medium are displayed together on the print location setting menu screen,
5 with the print boundary screen information being changed according to the input print
6 location information.

1 5. (Previously Presented) The method of claim 4, the print location setting menu
2 screen being programmed such that the print boundary screen information is respectively
3 changed in X-axis and Y-axis directions by using a print location adjustment cursor.

1 6. (Previously Presented) The method of claim 1, the print location setting menu
2 screen further comprising a cursor input window for setting the print location information

to default values.

7. (Currently Amended) The method of claim 1, the print location setting menu screen being programmed such that edge boundary screen information for [[a]] the printing medium and print boundary screen information for a print location area for printing on the printing medium are displayed together on the print location setting menu screen, with the print boundary screen information being changed according to the input print location information.

8. (Previously Presented) The method of claim 7, the print location setting menu screen being programmed such that the print boundary screen information is respectively changed in X-axis and Y-axis directions by using a print location adjustment cursor.

9. (Currently Amended) The method of claim 1, ~~further comprising wherein~~ the step of [[:]] adjusting the print location for printing by the printer, ~~comprising further~~ comprises the steps of:

receiving the print location information about the print location for printing on [[a]] the printing medium by the printer and the margin information about margins for printing on the printing medium from a computer; and
~~determining the print location for printing on the printing medium using the~~
~~print location information and the margin information; and~~

controlling the position of a printer head for printing on the printing medium according to the ~~print location determined in the step for determining the~~ print location.

10. (Currently Amended) The method of claim 9, ~~the step for determining wherein~~ the print location ~~comprising~~ is determined by the steps of:

determining an X-axis lower limit X_s by adding a left margin value M_l contained in the margin information to an X-axis minimum value X_{min} contained in the print location information, and determining an X-axis upper limit X_e by subtracting a right margin value M_r contained in the margin information from an X-axis maximum value X_{max} contained in the print location information;

determining a Y-axis lower limit Y_s by adding a top margin value M_t contained in the margin information to a Y-axis minimum value Y_{min} contained in the print location information, and determining a Y-axis upper limit Y_e by subtracting a bottom margin value M_b contained in the margin information from an Y-axis maximum value Y_{max} contained in the print location information;

comparing the X-axis lower limit X_s with the X-axis upper limit X_e and comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

selectively changing the margins respectively according to a predetermined rule when any of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ;

18 and

19 determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the
20 respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the
21 X-axis lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis lower
22 limit Y_s is less the Y-axis upper limit Y_e , and when the X-axis lower limit X_s is greater
23 than or equal to the X-axis upper limit X_e , determining an X-axis coordinate value X_{st} of
24 the print starting point by adding the X-axis minimum value X_{min} to a changed left
25 margin value Ml' determined in the selectively changing the margins step, and when the
26 Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e determining a
27 Y-axis coordinate value Y_{st} of the print starting point by adding the Y-axis minimum
28 value Y_{min} to a changed top margin value Mt' determined in the selectively changing the
29 margins step, respectively.

1 11. (Previously Presented) The method of claim 10, wherein, when any of the X-
2 axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis
3 lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e , the margins are
4 initialized to a zero position according to the predetermined rule.

1 12. (Previously Presented) A method of adjusting a print location for printing by a
2 printer, comprising the steps of:

3 receiving print location information about a print location for printing on a

4 printing medium by the printer and margin information about margins for printing on the
5 printing medium from a computer;

6 determining the print location for printing on the printing medium using the print
7 location information and the margin information; and

8 controlling the position of a printer head for printing on the printing medium
9 according to the print location determined in the step for determining the print location;

10 wherein the step for determining the print location comprises the steps of:

11 determining an X-axis lower limit X_s by adding a left margin value
12 M_l contained in the margin information to an X-axis minimum value X_{min}
13 contained in the print location information, and determining an X-axis
14 upper limit X_e by subtracting a right margin value M_r contained in the
15 margin information from an X-axis maximum value X_{max} contained in the
16 print location information;

17 determining a Y-axis lower limit Y_s by adding a top margin value M_t
18 contained in the margin information to a Y-axis minimum value Y_{min}
19 contained in the print location information, and determining a Y-axis upper
20 limit Y_e by subtracting a bottom margin value M_b contained in the margin
21 information from an Y-axis maximum value Y_{max} contained in the print
22 location information;

23 comparing the X-axis lower limit X_s with the X-axis upper limit X_e
24 and comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s ,

25 respectively;

26 selectively changing the margins respectively according to a
27 predetermined rule when any of the X-axis lower limit X_s is greater than or
28 equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater
29 than or equal to the Y-axis upper limit Y_e ; and

30 determining the X-axis lower limit X_s and the Y-axis lower limit Y_s
31 as the respective X-axis and Y-axis coordinate values of a print starting
32 point X_{st} , Y_{st} when the X-axis lower limit X_s is less than the X-axis upper
33 limit X_e and when the Y-axis lower limit Y_s is less than the Y-axis upper
34 limit Y_e , and when the X-axis lower limit X_s is greater than or equal to the
35 X-axis upper limit X_e , determining an X-axis coordinate value X_{st} of the
36 print starting point by adding the X-axis minimum value X_{min} to a changed
37 left margin value Ml' determined in the selectively changing the margins
38 step, and when the Y-axis lower limit Y_s is greater than or equal to the Y-
39 axis upper limit Y_e determining a Y-axis coordinate value Y_{st} of the print
40 starting point by adding the Y-axis minimum value Y_{min} to a changed top
41 margin value Mt' determined in the selectively changing the margins step,
42 respectively.

Claim 13. (Canceled)

1 14. (Previously Presented) The method of claim 12, wherein, when any of the X-
2 axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis
3 lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e , the margins are
4 initialized to a zero position according to the predetermined rule.

1 15. (Currently Amended) An apparatus for setting a print location for printing by
2 a printer, comprising:

3 means for determining whether a print location setting command for setting [[a]]
4 the print location for printing by the printer is input;

5 means for outputting a print location setting menu screen for setting the print
6 location for printing by the printer when the print location setting command is input;

7 means for inputting print location information for setting the print location for
8 printing by the printer and for entering the input print location information in the print
9 location setting menu screen; [[and]]

10 means for storing the input print location information entered in the print location
11 setting menu screen; and

12 means for adjusting the print location for printing by the printer by determining
13 the print location for printing on a printing medium using the print location information
14 and margin information;

15 wherein the print location is determined by comparing an X-axis lower limit X_s
16 with an X-axis upper limit X_e , and by comparing a Y-axis upper limit Y_e with a Y-axis

17 lower limit Ys.

1 16. (Previously Presented) The apparatus of claim 15, the print location setting
2 menu screen comprising an input window for inputting at least coordinate information
3 about a starting point and an end point of the print location for setting the print location
4 for printing by the printer.

1 17. (Previously Presented) The apparatus of claim 16, the print location setting
2 menu screen further comprising a cursor input window for setting the print location
3 information to default values.

1 18. (Currently Amended) The apparatus of claim 17, the print location setting
2 menu screen being programmed such that edge boundary screen information for [[a]] the
3 printing medium and print boundary screen information for a print location area for
4 printing on the printing medium are displayed together on the print location setting menu
5 screen, with the print boundary screen information being changed according to the input
6 print location information.

1 19. (Previously Presented) The apparatus of claim 18, the print location setting
2 menu screen being programmed such that the print boundary screen information is
3 respectively changed in X-axis and Y-axis directions by using a print location adjustment

4 cursor.

1 20. (Previously Presented) The apparatus of claim 15, the print location setting
2 menu screen further comprising a cursor input window for setting the print location
3 information to default values.

1 21. (Previously Presented) The apparatus of claim 15, the print location setting
2 menu screen being programmed such that edge boundary screen information for a printing
3 medium and print boundary screen information for a print location area for printing on
4 the printing medium are displayed together on the print location setting menu screen,
5 with the print boundary screen information being changed according to the input print
6 location information.

1 22. (Previously Presented) The apparatus of claim 21, the print location setting
2 menu screen being programmed such that the print boundary screen information is
3 respectively changed in X-axis and Y-axis directions by using a print location adjustment
4 cursor.

1 23. (Currently Amended) The apparatus of claim 15, ~~further comprising: wherein~~
2 ~~said~~ means for adjusting the print location for printing by the printer, ~~the means for~~
3 ~~adjusting comprising comprises:~~

4 means for receiving the print location information about the print location
5 for printing on [[a]] the printing medium by the printer and margin information
6 about margins for printing on the printing medium from a computer;

7 means for determining the print location for printing on the printing
8 medium using the print location information and the margin information; and

9 means for controlling the position of a printer head for printing on the
10 printing medium according to the print location determined by the means for
11 determining the print location.

1 24. (Previously Presented) The apparatus of claim 23, the means for determining
2 the print location comprising:

3 means for determining an X-axis lower limit X_s that adds a left margin value M_l
4 contained in the margin information to an X-axis minimum value X_{min} contained in the
5 print location information, and means for determining an X-axis upper limit X_e that
6 subtracts a right margin value M_r contained in the margin information from an X-axis
7 maximum value X_{max} contained in the print location information;

8 means for determining a Y-axis lower limit Y_s that adds a top margin value M_t
9 contained in the margin information to a Y-axis minimum value Y_{min} contained in the
10 print location information, and means for determining a Y-axis upper limit Y_e that
11 subtracts a bottom margin value M_b contained in the margin information from an Y-axis
12 maximum value Y_{max} contained in the print location information;

13 means for comparing the X-axis lower limit X_s with the X-axis upper limit X_e and
14 means for comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s ,
15 respectively;

16 means for selectively changing the margins respectively according to a
17 predetermined rule when any of the X-axis lower limit X_s is greater than or equal to the
18 X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than or equal to the Y-axis
19 upper limit Y_e ; and

20 means for determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as
21 the respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when
22 the X-axis lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis
23 lower limit Y_s is less than the Y-axis upper limit Y_e , and when the X-axis lower limit X_s
24 is greater than or equal to X-axis upper limit X_e , means for determining an X-axis
25 coordinate value X_{st} of the print starting point that adds the X-axis minimum value X_{min}
26 to a changed left margin value Ml' determined by the means for selectively changing the
27 margins, and when the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper
28 limit Y_e , means for determining a Y-axis coordinate value Y_{st} of the print starting point
29 that adds the Y-axis minimum value Y_{min} to a changed top margin value Mt' determined
30 by the means for selectively changing the margins.

1 25. (Previously Presented) The apparatus of claim 24, wherein, when any of the
2 X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis

lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e , the margins are initialized to a zero position according to a predetermined rule.

26. (Previously Presented) An apparatus for adjusting a print location for printing by a printer, comprising:

means for receiving print location information about a print location for printing on a printing medium by the printer and margin information about margins for printing on a printing medium from a computer;

means for determining the print location for printing on the printing medium using the print location information and the margin information; and

means for controlling the position of a printer head for printing on the printing medium according to the print location determined by the means for determining the print location;

wherein the means for determining the print location comprises:

means for determining an X-axis lower limit X_s that adds a left margin value M_l contained in the margin information to an X-axis minimum value X_{min} contained in the print location information, and means for determining an X-axis upper limit X_e that subtracts a right margin value M_r contained in the margin information from an X-axis maximum value X_{max} contained in the print location information;

means for determining a Y-axis lower limit Y_s that adds a top

margin value M_t contained in the margin information to a Y-axis minimum value Y_{min} contained in the print location information, and means for determining a Y-axis upper limit Y_e that subtracts a bottom margin value M_b contained in the margin information from an Y-axis maximum value Y_{max} contained in the print location information;

means for comparing the X-axis lower limit X_s with the X-axis upper limit X_e and means for comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

means for selectively changing the margins respectively according to a predetermined rule when any of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ; and

means for determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the X-axis lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis lower limit Y_s is less than the Y-axis upper limit Y_e , and when the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e , means for determining an X-axis coordinate value X_{st} of the print starting point that adds the X-axis minimum value X_{min} to a changed left margin value M_l' determined by the means for selectively changing the margins, and when the Y-axis lower

40 limit Y_s is greater than or equal to the Y-axis upper limit Y_e , means for
41 determining a Y-axis coordinate value Y_{st} of the print starting point that
42 adds the Y-axis minimum value Y_{min} to a changed top margin value M_t'
43 determined by the means for selectively changing the margins.

Claim 27. (Canceled)

1 28. (Previously Presented) The apparatus of claim 26, wherein, when any of the
2 X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis
3 lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e , the margins are
4 initialized to a zero position according to a predetermined rule.